MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 3, 2021/2022

BEA 2074 ENTERPRISE ARCHITECTURE

(All sections / Groups)

17 AUGUST 2022
9.00 AM – 11.00 AM
(2 Hours)

INSTRUCTIONS TO STUDENTS

1. This question paper consists of 2 pages (including cover page).
2. There are THREE question with sub sections for questions ONE and THREE.
3. Answer **ALL** questions.
4. Mark distribution for each question is given parenthesis.

Question 1

In this exercise, you will design a database for used cars, as might be used by an on-line trading site. The database will store automobiles for sale. Each automobile has a VIN (vehicle identification number), a model (e.g., Camaro), a make (e.g., Chevrolet), a year (e.g., 1996), a color (e.g., red), a mileage (e.g., 50,000 miles), and a body style (e.g., coupe). Each automobile has a seller, which may be either a dealer or an individual. For dealers, the database has a name, address, and phone number. For individuals, only a phone number and email address are recorded. In addition, articles about cars are maintained. Each article is about one model, make, and year of automobile, and each article has an author. The same author may write several articles about one make and model for one year. The database should connect cars with the articles about the make, model, and year of that car, although it need not make a *direct* connection. Given this description, do the following

Design a schema for a relational database, list all relation schema and for each relation schema, state as follows:

(i) the name of the relation,
(ii) the names of its attributes,
(iii) the domain (or data type) of each attribute, and
(iv) the primary key.

(20 marks)

Question 2

Define abstractions and perspectives of the TOGAF framework with the aid of a diagram and table?

(15 marks)

Question 3

a. What is the value of Enterprise Architecture to a firm? Explain your answer using the **"as-is"** and **"to-be"** architecture?

(10 marks)

b. The **"top down" and "bottom up"** approach is equally important in the Enterprise Architecture design. Explain this statement with reference to Technology Architecture.

(5 marks)

End of Paper